

RNN Sentiment Analysis

Task 1

Need to convert text to vectors.

- * Integer encoding
- * embedding.

1 2
Hi there
3 4 5
How are you
(in our vocab)

1
0

Step 1

Need to create vocab. (unique words)

→ [1 2]

→ [3 4 5]

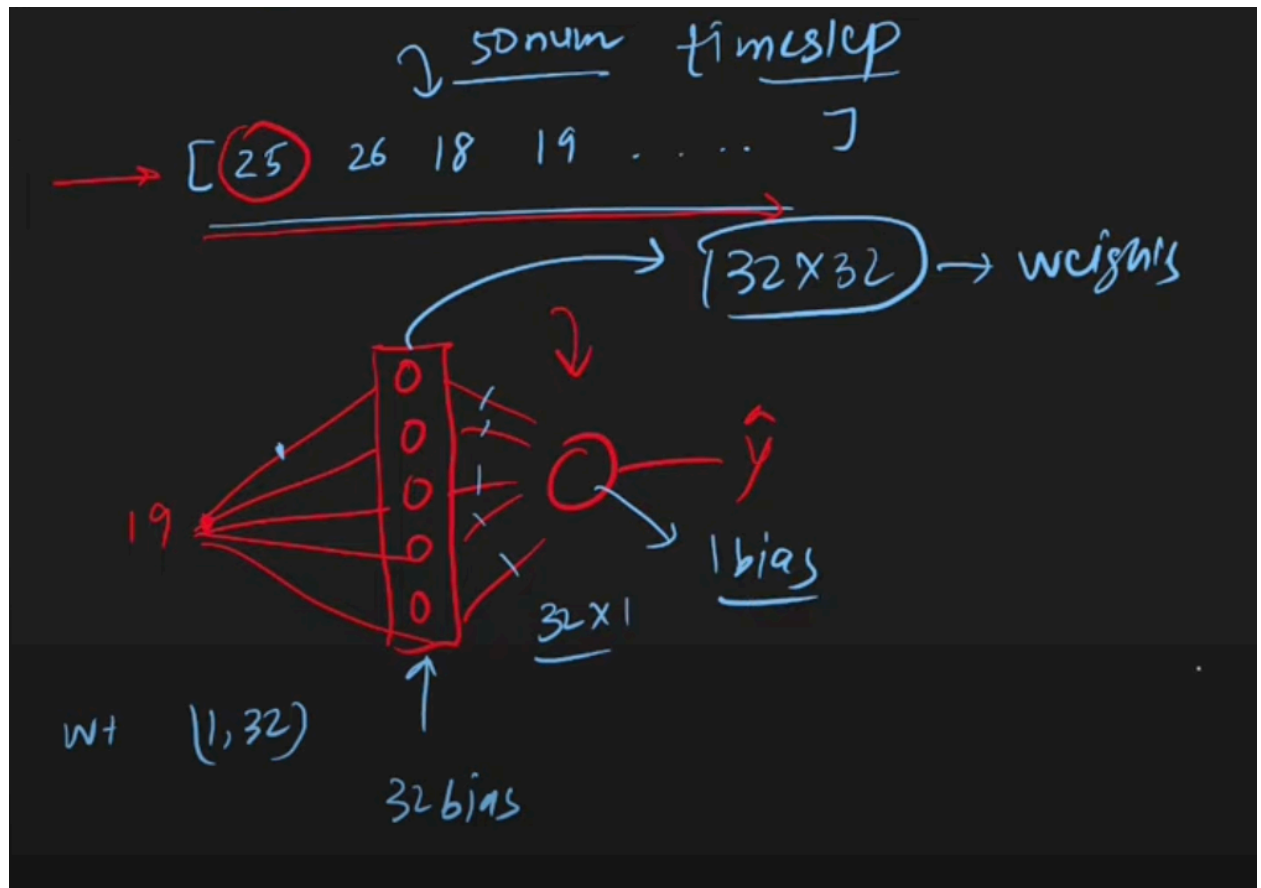
zero padding

[1	2	0]	←
[3	4	5]	←

↖
RNN

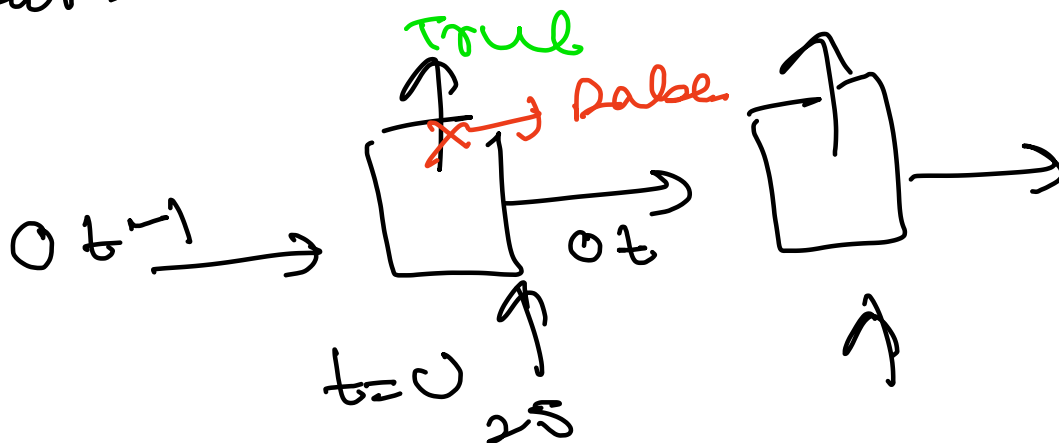
Code

md18 2 3



Ino code

Return sequences = False



Embedding

In natural language processing, word embedding is a term used for the representation of words for text analysis, typically in the form of a real-valued vector that encodes the meaning of the word such that the words that are closer in the vector space are expected to be similar in meaning.

In keras we have a embedding layer
we can create a embedding layers
just before the RNN layer.

Embedding \rightarrow R^N
(Dense representation)

Embedding (↓
vocab size output
 dim
 = 2
 (,)
 word to numbers.

input length $\Rightarrow 5$
no of weights.
after padding: